

Youngstown, O.
Sept 9th 1891.

Dear Prof Watson

I mail you today in a newspaper a Solidago, that I think must be, *S. arguta*, ait. (or *S. Muhlenbergii* Fernald) It seems to fit nothing else nearly so closely, even to pubescent racemes, and the whole plant otherwise, smooth, but you call for 6 or 7 rays - and I am unable to find over four, and generally three, only, besides the achenes are plainly pubescent. Wood calls for 6 or 8 ray - and heads 15 to 20 florets. I can-

not find over 13 florets, and generally 10 15 11 or 12. Longs N.Y. State Botany - says ray 5 to 7 - disk florets 12 to 14 achenes smooth - also says below, "leaves nearly entire toward base and apex". These certainly are not, toward the apex. Still, as the last Manual says achenes usually glabrous - I take it they may be sometimes pubescent, and though you allow for no ray below 6 - I think it must be *S. arguta* ait. is it not? I got plants from two places a half mile apart, and can see no difference, achenes from both places being very pubescent, and generally three ray - in no case over four. I notice one thing not mentioned, that is the involucre scales are green, and not yellow, as is the case with so many of the golden rods. I beg pardon for writing so long a letter, but when you put a thing in italics, as you do "ray 6 or 7" - I think it should be so, and that makes no doubt, still with the two captions, it fits *S. arguta* ait. almost exactly, and nowhere else so near -

Yours Truly R. H. Ingraham